

MP-DA24-KIT

18G HDMI 2×4 Splitter Kit over CAT5e/6/7



PRODUCT OVERVIEW

The MP-DA24-KIT is an 18Gbps HDMI 2×4 splitter kit designed to distribute either of two UHD/4K HDMI sources to four CATx receiver outputs and one local HDMI loop output. It supports 4K@60Hz 4:4:4 8-bit, long-distance transmission over CAT5e/6/7, 12V PoC, automatic downscaling, bidirectional IR, IR cascading and RS232 control.

KEY FEATURES

- HDMI V2.0 with video support up to 4K@60Hz 4:4:4.
- 2 HDMI source inputs with front-panel source selection and auto-switching.
- 4 CATx outputs plus 1 local HDMI loop output.
- Transmission up to 70m (4K) and 80m (1080p) over a single CATx cable.
- 12V PoC powers the compatible receivers directly from the splitter.
- Automatic 4K-to-1080p downscaling on CAT outputs for legacy displays.
- SPDIF and balanced L/R audio de-embedding.
- Bidirectional IR pass-through, IR cascade and RS232 control.
- EDID management with Low Resolution, Default and High Resolution modes.

TECHNICAL SPECIFICATIONS

SPLITTER — VIDEO

Video Inputs	2 × HDMI sources (manual introduction/panel); HDMI Type-A female
HDMI Input Resolution	Up to 4K@60Hz 4:4:4 8-bit
Video Outputs	1 × HDMI local loop output + 4 × CATx outputs
HDMI Output Resolution	Up to 4K@60Hz 4:4:4
CAT Output Resolution	Up to 4K@60Hz 4:4:4 (compressed signal)
HDMI Standard	2.0
HDCP	2.2
Bandwidth	18Gbps
Transmission Distance	4K ≤70m (230ft); 1080p ≤80m (262ft)
CAT Cable	CAT5e/6/7; use quality cable compliant with CAT5e or higher

AUDIO

SPDIF Output	1 × Toslink
SPDIF Formats	LPCM 2ch; Dolby Digital 2ch/5.1ch/7.1ch; Dolby TrueHD 7.1ch; DTS 2ch/5.1ch
SPDIF Frequency Response	20Hz–20kHz, ±1dB
SPDIF SNR	>90dB
SPDIF THD+N	<0.05%
Balanced L/R Output	1 × 5-pin terminal block; PCM
Balanced Audio Response	20Hz–20kHz, ±1dB
Balanced Max Output	2.0Vrms ±0.5dB
Balanced SNR	>80dB
Balanced THD+N	<0.05%

Note: The manual states that SPDIF does not support DTS-HD Master Audio and Dolby TrueHD formats.

RECEIVER & CONTROL SPECIFICATIONS

RECEIVER

Receiver Model	MPTP-T60S-H2R
Input	1 × CAT via RJ45
Input Resolution	Up to 4K@60Hz 4:2:0
Output	1 × HDMI Type-A female
Output Resolution	Up to 4K@60Hz 4:4:4 8-bit HDR10
HDCP	2.2 / 1.4 compliant
PoC	Bidirectional 12V PoC support
HDMI Cable Length	4K@60Hz 4:4:4 ≤5m; 4K@60Hz 4:2:0 ≤10m; 1080p ≤15m
Power	Input 100–240V AC; receiver output 12V DC 1A
Power Consumption	4W max
Dimensions	80 × 16.8 × 80mm
Net Weight	70g

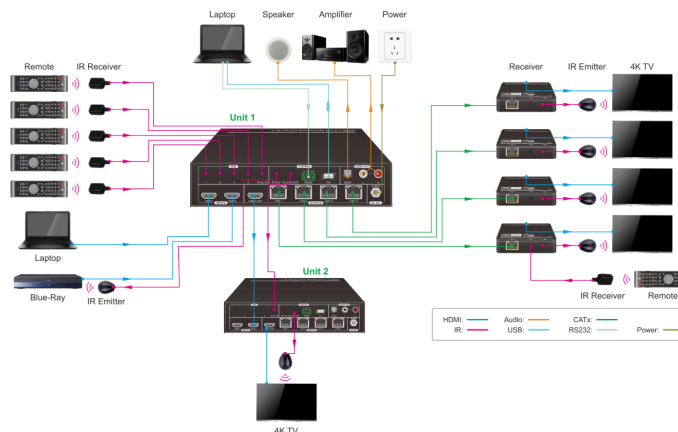
CONTROL & GENERAL

Control Ports	EDID, Firmware, IR ALL IN, 4 × IR IN, IR LOOP OUT, IR OUT, RS232 IN
Control Connectors	3-pin DIP switch, USB-A, 7 × 3.5mm mini jacks, 3-pin terminal block
RS232	9600 baud default; 8 data bits; 1 stop bit; no parity
RS232 Baud Options	9600 / 19200 / 38400 / 57600 / 115200
Auto Switching	Selectable manual/automatic mode; detection via 5V or TMDS
Operating Temperature	Splitter: –10°C to +55°C; Receiver: –5°C to +55°C
Storage Temperature	–25°C to +70°C
Relative Humidity	10%–90%
Splitter Power	100–240V AC adapter; 12V DC 2A input
Splitter Power Consumption	14.5W max
Splitter Dimensions	200 × 44 × 130mm
Splitter Net Weight	855g

SYSTEM CONNECTION

- All devices should be connected before power on.

4.2 System Diagram



The manual's system diagram on page 9 shows HDMI source devices feeding the MP-DA24 splitter, with local HDMI and CATx connections to MPTP-T60S-H2R receivers and displays, plus audio and control connections.

DOWNSCALING, EDID & PACKAGE CONTENTS

VIDEO DOWNSCALING

3840×2160@60Hz 4:4:4	Support → 1080p@60Hz 4:4:4
3840×2160@30Hz 4:4:4	Support → 1080p@30Hz 4:4:4
3840×2160@24Hz 4:4:4	Support → 1080p@24Hz 4:4:4
3840×2160@60Hz 4:2:0	Support → 1080p@60Hz 4:4:4
3840×2160@50Hz 4:2:0	Support → 1080p@50Hz 4:4:4
3840×2160@60/50/30/24Hz 4:2:2	Supported → corresponding 1080p@4:4:4

EDID MANAGEMENT

L.RES	Reads all connected display EDIDs and passes the lowest resolution to the source.
DEFAULT	3840×2160@60Hz Deep Color Stereo Audio.
H.RES	Reads all connected display EDIDs and passes the highest resolution to the source.

PACKAGE CONTENTS

- 1 × MP-DA24 2×4 HDMI Splitter over CATx
- 4 × Plastic Cushions
- 1 × RS232 Cable (3-pin to DB9)
- 1 × IR Cable (3.5mm to 3.5mm, for IR cascade)
- 4 × IR Receivers
- 1 × IR Emitter
- 1 × Power Adapter (12V DC 2A)
- 4 × MPTP-T60S-H2R Receivers
- 4 × Velcro Strips
- 1 × User Manual

Source: MP-DA24-KIT User Manual, Version MP-DA24-KIT_2025V1.4. Specifications are based on the supplied manual.